AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the present application:

Claims 1-23 (Cancelled).

- 24. (Currently Amended) A method for improving the efficiency of a process which comprises a process stream at least a portion of which is capable of forming a gaseous hydrogen-containing enrichment stream, and a dilute gaseous waste material stream not capable of self-sustaining combustion, comprising gaseous waste material and at least a portion of which is converted to carbon dioxide and water vapor by burning using a flare apparatus, said method comprising the steps of:
- a) forming a gaseous hydrogen-containing enrichment stream derived from at least a portion of the process stream;
- b) blending the gaseous hydrogen-containing enrichment stream with the dilute gaseous waste material stream to form a blended flare feed stream;
 - c) feeding the blended flare feed stream to the flare apparatus; and
- d) burning the blended flare feed stream using the flare apparatus to convert at least 80% of the dilute gaseous waste material stream to carbon dioxide and water.
- 25. (Previously Presented) The method according to Claim 24, wherein the gaseous hydrogen-containing enrichment stream comprises at least 4 mol% hydrogen, based upon the total moles of the gaseous hydrogen-containing enrichment stream.

- 26. (Previously Presented) The method according to Claim 24, wherein the blended flare feed stream comprises at least 3 mol% hydrogen, based on the total moles of the blended flare feed stream.
- 27. (Previously Presented) The method according to Claim 24, wherein the blended flare feed stream is capable of self-sustaining combustion in the flare apparatus.
- 28. (Previously Presented) The process according to Claim 24, wherein the gaseous hydrogen-containing enrichment stream comprises hydrogen derived from ammonia dissociation.
- 29. (Previously Presented) The process according to Claim 24, wherein the gaseous hydrogen-containing enrichment stream comprises hydrogen derived from synthesis gas.
- 30. (Previously Presented) The process according to Claim 24, wherein the gaseous hydrogen-containing enrichment stream comprises hydrogen derived from acetylene tail gas.
- 31. (Currently Amended) The process according to Claim 24, wherein the gaseous hydrogen-containing enrichment stream comprises hydrogen derived from hydrogen cyanide absorber off-gas.

- 32. (Previously Presented) The process according to Claim 24, wherein said blending step comprises blending the dilute gaseous waste material stream with the gaseous hydrogen-containing enrichment stream and a gaseous hydrocarbon-containing enrichment fuel stream.
- 33. (Previously Presented) The process according to Claim 24, wherein the process comprises a plurality of processes, each of which is capable of producing at least one product and of operating independently of other chemical processes.